



## **LEGACY – Maintaining the Infrastructure into the Future**

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### **BACKGROUND**

- In the past, emergency repairs were accomplished on systems until ultimate catastrophic failure. However, prior to failure, months of inefficient use of manpower and materials occurred to keep the aging system operational beyond its economic life.

### **DISCUSSION**

- The LEGACY vision is a business plan and strategy to predictive replacement.
  - Using engineering analysis and feedback of real-time performance data, predictive replacement is the sound engineering and economic approach. Predictive replacement of systems occurs before inefficient operations resulted in extra costs. Resources are used more efficiently to maintain sound systems rather than reacting to emergencies.
  - LEGACY includes collecting and preserving data on all infrastructure systems; systematically improving performance of systems to satisfy customer needs with optimum reliability and planned replacement; establishing out-year level funding for repair & replacement strategies. The LEGACY strategy is based on six pillars: Mission, Force Protection, Maintainability, Predictive Replacement, Energy Conservation, and New Technology.
  - The LEGACY philosophy is a 30-year infrastructure business plan for guiding capital investments in the base infrastructure system, based on a cradle to grace to cradle approach.
  - LEGACY validates when, where, and what funding source (O&M, JFIP, MCP, ENV, MFH, ECIP) is required to maintain the integrity of the infrastructure systems and eliminates excessive emergency repairs. Execution is predominately RPM executed by contract as construction or IDIQ mechanisms. Large-scale infrastructure projects are prioritized through the FUB process. Routine cyclic infrastructure maintenance requires a stable fund source and is directly cited from the CE budget against an IDIQ contract and not directly competed in the FUB.
  - LEGACY implementation is underway with data generation, implementation and funding of five-year plans. Five-year plans are rolled into 30-year visions. Initial data generation is being moved from Access database storage and is being integrated into GIS. GIS is the next generation platform that will move the information from engineers to craftsmen and make the data available for complete system network analysis, along with investment decision matrixes.

### **CONCLUSION**

- The bottom line - LEGACY works! Kadena's infrastructure systems are aging with increased maintenance requirements; we are investing O&M funds in a comprehensive strategy that saves money and manpower over time. The continued viability of Kadena AB will require substantial investments in infrastructure. LEGACY provides the framework to guide these critical investments to secure Kadena's vital role in the Pacific.